

selecta 

Poinsettias

2023



selecta^{one}[®]

ALL YOU NEED TO SUCCEED



Selecta One Is Your Growing Partner

For Selection

- Solutions for every region, pot size and season.
- Rich reds and exciting novelties from early-season to Christmastime.
- Number one breeding company for series to fit your every need.
- Simple, uniform production across colors to help ensure your success.

Find growing recommendations starting on **page 34**.

For Quality

- Be confident in your growing regimen with superior genetics and predictability.
- Access the greatest availability of the highest-quality cuttings where and when you need them.
- Simplify your production with culture and growing recommendations throughout the catalog.

For a comprehensive culture guide, turn to **page 41**.

For Availability

- Get what you need with fast, reliable delivery from production farms in Africa, Mexico and Nicaragua.
- Your future and success are our greatest priorities.

Read about our new unrooted cutting farm in Yecapixtla, Mexico, on **page 32**.

FOUNDATION FOR SELECTION

Every Selecta One poinsettia is bred for:



V-shaped, Well-branched Habits

Selecta One poinsettias are less prone to breakage, so they sleeve and ship beautifully, arriving at retail in excellent condition.



Long-lasting Cyathia

Superior plant structure ensures an outstanding shelf life on the bench and at retail, and more weeks of enjoyment for consumers.



Strong Roots

These durable roots stand up to a range of watering methods, including flood-floor irrigation, for lower shrink and higher yield.

ADVICE FROM OUR EXPERT

With more than 30 years in the horticulture industry, Product and Technical Support Manager Gary Vollmer has seen just about every type of growing condition that can affect plants. You can take advantage of his expertise when you look for **Gary's Tips** throughout this catalog.



Visit SelectaNorthAmerica.com/Poinsettias/AskGary or scan the QR to ask Gary a question.

Gary Vollmer

Selecta One
Product and Technical
Support Manager



KEY TO SYMBOLS

Plant Vigor:

LOW	●○○○○○
MEDIUM-LOW	●●○○○○
MEDIUM	●●●○○○
MEDIUM-HIGH	●●●●○○
HIGH	●●●●●●

Habit:

NARROW	
NORMAL	
WIDE	

Mini Cutting:

MINI AVAILABLE

Mini poinsettias make ideal impulse gifts when placed near check-outs. Take advantage of this popular trend by ordering some of our best-selling varieties in mini cutting form. Just look for our "Mini Available" icon throughout these pages.

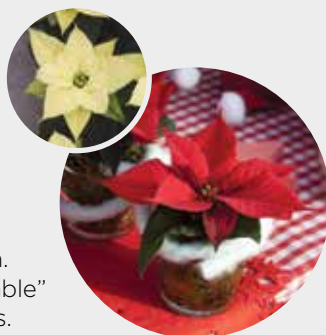


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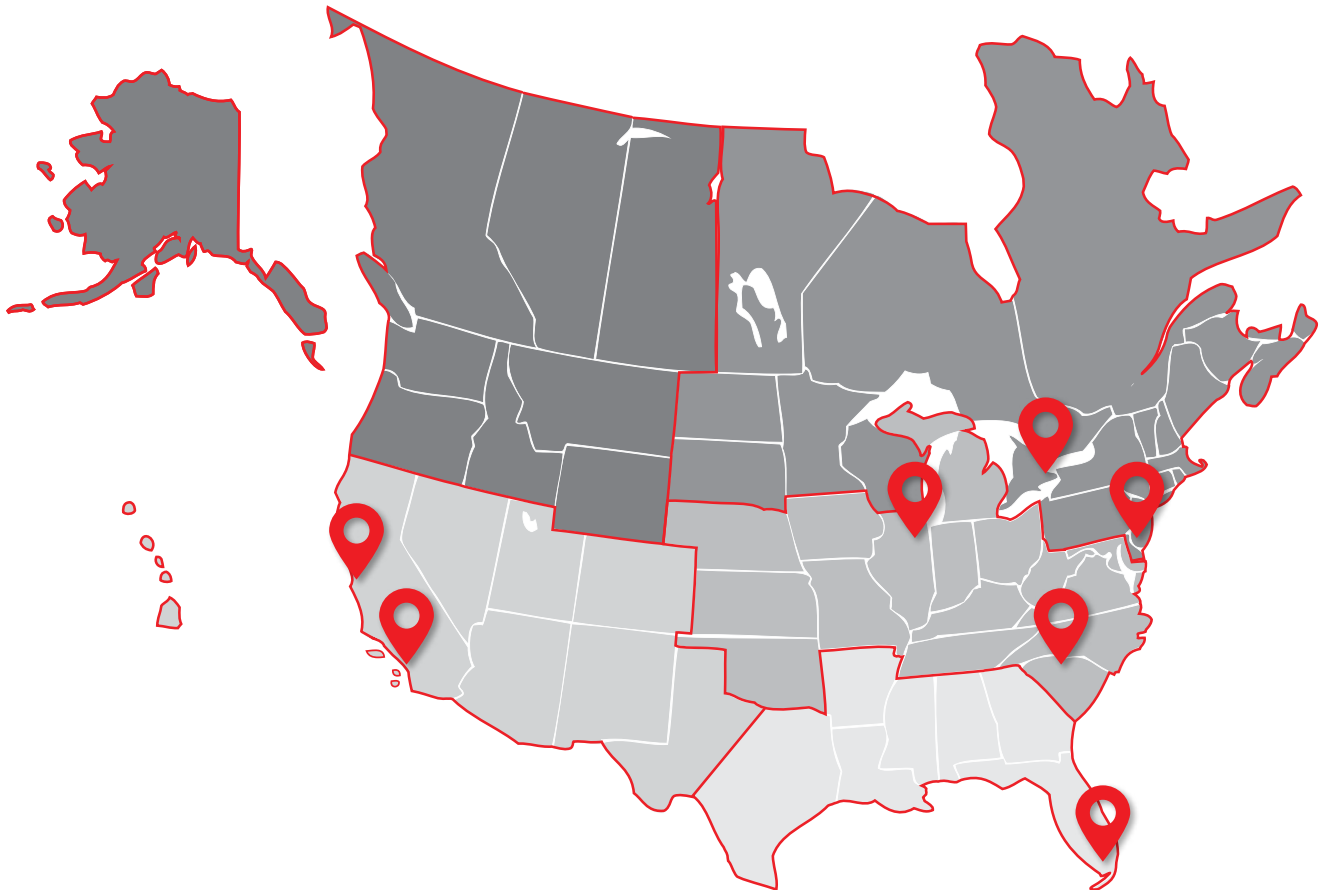


*Catch our cover star
Early Elegance
on page 4!*

TRIALED FOR EVERY REGION

As your growing partner, we know one of the most important steps in planning your poinsettia season is choosing varieties that provide the best growing results in your region. Thanks to our extensive trialing throughout the world and continuous feedback from commercial growing operations in North America, we have fine-tuned our selection to ensure the **best recommendations for every region.**

Throughout this catalog, we've provided a regional mapping tool to assist you in your selection. Look for the shaded map to help determine the right poinsettias for your program.



● **Canada, Northwest**

Alaska
Alberta
British Columbia
Idaho
Montana
Oregon
Saskatchewan
Washington
Wyoming

● **Canada, North**

Delaware
Manitoba
Maritime Provinces
Minnesota
New England
New Jersey
New York
North Dakota
Ontario
Pennsylvania
Québec
South Dakota
Wisconsin

● **Midwest Atlantic**

Illinois
Indiana
Iowa
Kansas
Kentucky
Maryland
Michigan
Missouri
Nebraska
North Carolina
Ohio
Oklahoma
South Carolina
Tennessee
Virginia
West Virginia

● **Southwest**

Arizona
California
Colorado
Nevada
New Mexico
Utah
West Texas

● **Deep South**

Alabama
Arkansas
Florida
Georgia
Hawaii
Louisiana
Mississippi
Texas (*Central & East*)



Our expansive North American trial locations include: Niagara, ON; Arroyo Grande, CA; Salinas, CA; Charlotte, NC; West Chicago, IL; Monroeville, NJ; and Miami, FL.

DEPENDABLE SERIES PLANTS

Interior designers, holiday decorators and retail buyers know the benefits of purchasing series poinsettias. Not only is every companion plant in a series beautiful, but their timing and habits are matched, so you know they will **grow well together**.



Early Elegance Marble

Dependability and reliability are key to your success. Selecta One's focus on creating a true genetic series of strong, grower-friendly plants with excellent retail and consumer performance has made them the industry leader and customer favorite for poinsettias.





RED

EARLY ELEGANCE™ SERIES

Early-Season Showstopper

Early Elegance is an excellent choice for early-season poinsettia sales, targeting opportunities for **mid-November through Thanksgiving**. Works well in all North American markets. Medium-low vigor makes this an excellent choice for 4-in. up to 8-in. (10-cm up to 20-cm) containers. The series includes a vibrant marble and one of the truest pink colors available.

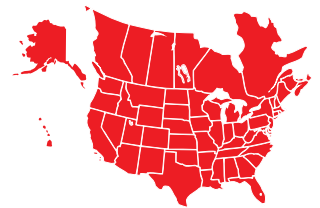
7 WEEKS

VIGOR ●●○○○

NORMAL



MINI AVAILABLE



MARBLE



PINK



WHITE



Early Elegance Red

GARY'S TIPS

“Early Elegance fills the need for early sales, high yield and ease of growing, along with excellent colors, especially Marble, which is the most vivid on the market.”

CULTURE THAT WORKS

Propagation

- Roots rapidly; plant from a liner at 22-24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7.
- May not require PGR application in propagation.
- Plant into the finished container when well-rooted.
- Feed aggressively; failure to feed early enough will result in yellowing and hardening.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Low-vigor varieties require less PGR for growth control.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500-750 ppm.

Growing On

- Grows steadily once the branches develop and exhibits consistent slow growth throughout the crop until color begins.
- Northern Climate: Apply Cycocel spray at 500-750 ppm.
- Southern Climate: Can use Cycocel spray up to 750-1,000 ppm; use B-Nine/ Cycocel tank mixes with caution in the South and not at all in the North.
- Low-rate Micro Bonzi drenches can be applied after October 1, but use caution with rates and volume, as these are sensitive to PGR.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- Reducing temperatures at finish can help with color retention and shelf life.
- A Bonzi application (1 ppm drench or 5 ppm spray) can be applied at the very end of the crop at first pollen shed to increase the shelf life and retain the cyathia.

CHRISTMAS MOUSE[®] SERIES

Novel Shape, Unique Appeal

Christmas Mouse has exciting “mouse ear” bracts — **completely unique to the market!** This upright, medium-vigor poinsettia is an easy-to-grow novelty series available in Red and Pink. Great product for young consumers!



RED



PINK

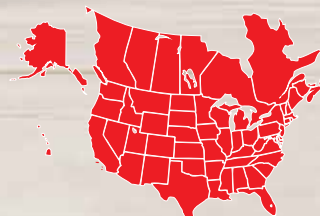


8-8.5 WEEKS

VIGOR ●●●○○

NORMAL ▼

MINI AVAILABLE ✨



POINT-OF-PURCHASE ARTWORK

Scan to download
Christmas Mouse P.O.P.



HANG TAG



STICK TAGS



SLEEVE



MINI POT WRAP

*Pot also available, see page 6



CART BANNER

GARY'S TIPS

“Christmas Mouse stands out in the marketplace. It’s a strong novelty, ideal for targeting sales to new, younger poinsettia customers.”

CULTURE THAT WORKS

Propagation

- Roots very rapidly; plant from a liner at 19-21 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7.
- Feed aggressively; failure to feed early enough will result in yellowing.
- Medium vigor level; will require PGR application in propagation; 500-750 ppm Cycocel spray at day 15-20, which can be repeated if necessary.
- Plant into finished container when well-rooted.

Early Finished Growth

- Pinch early; at day 14-16 from a liner; at day 24-26 for direct-stick.
- Failure to pinch early will result in uneven branching.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500 ppm or 750 ppm to even out branches.
- This branching occurs very rapidly after pinching and PGR may be needed as quickly as 7 days.
- Upright habit; can go to final spacing very early if needed.

Growing On

- Aggressive growth when branches develop; shows strong growth from October into early November; slows down at finish in late November.
- Northern Climate: PGR limited to Cycocel spray at 500-750 ppm.
- Southern Climate: Use 1-2 spray applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Later PGR applications: Cycocel spray 500-750 ppm, end October 10.
- Micro Bonzi drenches can begin in early October.

Late Growing Stages

- Strong root system; requires continuous feed until finish; watch media EC and reduce feed levels to avoid rapid increase in media EC; this indicates plants' need for nutrition is waning.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- Finishes naturally in late November to early December; can be held cool to target week 50-51 sales; avoid dew point to prevent *Botrytis*.



RED

CHRISTMAS BEAUTY™ SERIES

#1 Top-Selling Series

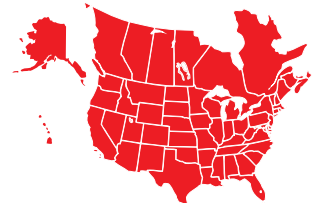
This space-saver finishes mid-season and features a controlled habit for excellent sleeveability. This Southern favorite offers superior performance under warmer conditions, as well as cool finishing. It is bred for **maximum space efficiency** and has **strong roots for long-lasting plants and less shrink**, making Christmas Beauty an excellent choice for mixes and mini cuttings!

8 WEEKS

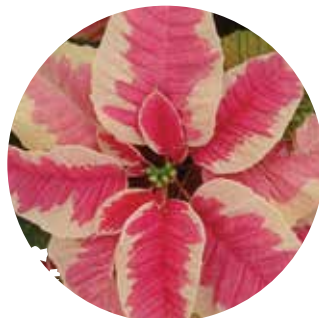
VIGOR ●●●○

NORMAL ▼

MINI AVAILABLE ✨



CINNAMON



MARBLE



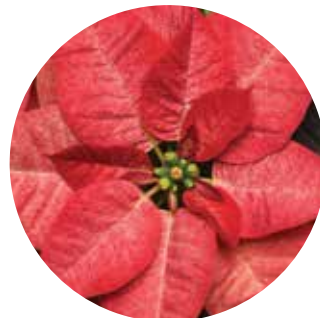
NORTH POLE



PINK



PRINCESS



QUEEN



Christmas Beauty Queen

GARY'S TIPS

“Christmas Beauty Red has an excellent red color that is very resistant to fading. It can be held cool, but pay attention to the humidity and avoid dew point to prevent *Botrytis*.”

CULTURE THAT WORKS

Propagation

- Plant from liner at 22-24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7 to prevent yellowing.
- May not require PGR application in propagation.
- Will branch very early based on leaf maturity, not just pinch.
- Plant into finished container when well-rooted.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Plant produces a branch at every node.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm).
- Apply Cycocel spray at 500 ppm to even out branches.

Growing On

- Grows steadily once the branches develop and exhibits consistent moderate growth throughout the crop until color begins.
- Northern Climate: Apply Cycocel spray at 500 ppm.
- Southern Climate: Can use Cycocel spray up to 1,000 ppm; use 1-2 applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Apply later Cycocel sprays at 500-750 ppm.
- Micro Bonzi drenches can begin in early October.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.



RED

CHRISTMAS JOY™ SERIES

Ideal for Combinations

Christmas Joy is **ready a week before Thanksgiving** and will color up right on time for Black Friday — hitting the early market without needing black cloth. Medium-vigor, even-branching series **makes it to retail intact** and offers less shrinkage. Plus, Christmas Joy White is the top-selling white poinsettia in the Selecta One lineup. Due to the uniformity across all colors, Christmas Joy is also our number one series for mixed containers. Grow this one cool to **save energy and money.**

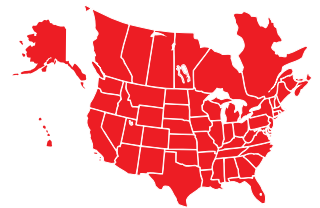
7.5 WEEKS

VIGOR ●●●○○

NORMAL



MINI AVAILABLE



MARBLE



PINK



WHITE



Christmas Joy White

GARY'S TIPS

“Christmas Joy varieties grow steadily once the branches develop, with stronger growth through mid-October. Then they slow down significantly as they get closer to finishing.”

CULTURE THAT WORKS

Propagation

- Plant from liner at 22-24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7 to prevent yellowing.
- Apply 500 ppm Cycocel spray at day 18-20.
- Plant into finished container when well-rooted.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500 ppm.
- Prevention strategies for *Pythium* and *Rhizoctonia* are recommended shortly after planting into finished containers.

Growing On

- Grows steadily once the branches develop and exhibits strong growth through mid-October, then slows down significantly as it approaches finish.
- Northern Climate: Apply Cycocel spray at 500-750 ppm.
- Southern Climate: Can use Cycocel spray up to 1,000 ppm; use 1-2 applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Apply later Cycocel sprays at 500-750 ppm, ending by October 10.
- Micro Bonzi drenches can begin in early October, but should be stopped by October 15.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- Can be held cool, but pay attention to the humidity and avoid dew point to prevent *Botrytis*.
- To hold Joy varieties, it is important to cool down temperatures to avoid color fade in the red.



CHRISTMAS FEELINGS™ SERIES

Reliable, Desirable, Profitable

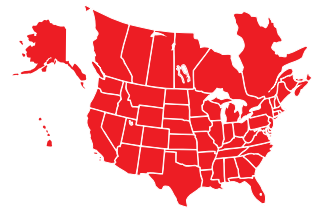
This top-selling series is great for mixes, due to its reliable uniformity across an impressive color range! **Space-efficient, easy-to-grow** Christmas Feelings saves time and money with **low energy input and low PGR** requirements. Plus, no late-season stretch ensures you can send better-looking plants to market. This series offers a strong habit for more saleable plants, excellent post-harvest characteristics and dependable timing to finish for peak shipping.

8 WEEKS

VIGOR ●●○○○

NORMAL ▼

MINI AVAILABLE ✨



MERLOT



PINK



WHITE



Christmas Feelings Red

GARY'S TIPS

“Christmas Feelings has exceptional shelf life and can be kept in the greenhouse at cool temperatures for late-season sales.”

CULTURE THAT WORKS

Propagation

- Plant from liner at 22-24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7 to prevent yellowing.
- May not require PGR application in propagation.
- Will branch very early based on leaf maturity, not just pinch.
- Plant into finished container when well-rooted.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Plant produces a branch at every node.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm).
- Apply Cycocel spray at 500 ppm to even out branches.

Growing On

- Grows steadily once the branches develop and exhibits consistent moderate growth throughout the crop until color begins.
- Northern Climate: Apply Cycocel spray at 500 ppm.
- Southern Climate: Can use Cycocel spray up to 1,000 ppm; use 1-2 applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Apply later Cycocel sprays at 500-750 ppm.
- Micro Bonzi drenches can begin in early October.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.

CHRISTMAS GLORY™ SERIES

Smaller Pots, Bigger Appeal

Compact series is perfect for 6-in. (15-cm) and **smaller pots** and thrives in cool temperatures for better energy savings. Christmas Glory provides **uniformity across all colors**, and even branching, with bright, non-fading bracts all on top. The entire series is available as mini cuttings for perfect “grab-n-go” gift items this season.



PINK



WHITE



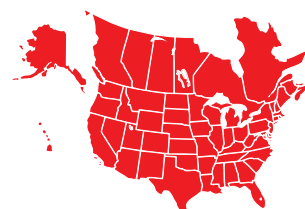
RED

7.5 WEEKS

VIGOR ●○○○○

NORMAL ▼

MINI AVAILABLE ✨



GARY'S TIPS

“Christmas Glory is a series that is specifically targeted for early sales of smaller containers and should be shipped when ready.”

CULTURE THAT WORKS

Propagation

- Plant from liner at 22-24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7 to prevent yellowing.
- May not require PGR application in propagation.
- Plant into finished container when well-rooted.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500 ppm.

Growing On

- Grows steadily once the branches develop and exhibits consistent slow growth throughout the crop until color begins.
- Northern Climate: Apply Cycocel spray at 500 ppm.
- Southern Climate: Can use Cycocel spray up to 750 ppm; B-Nine/Cycocel tank mixes should not be used.
- Use caution, as plants are very responsive to PGR, especially Bonzi.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- A Bonzi application (1 ppm drench or 5 ppm spray) can be applied at the very end of the crop at first pollen shed to increase the shelf life and retain the cyathia.

TOP-SELLING REDS

Like a ruby-colored sky during a Winter sunset, no color heralds the holiday season like red. And no name brings traditional, beautiful and reliable red poinsettias to every region in North America like Selecta One.



Christmas
Bells

Top-selling red poinsettias are specially selected for your area. Having high-quality red poinsettias for your unique market segment and seasons has been the core goal of Selecta One's poinsettia program. Whether in a series or as a standalone variety, Selecta One has the highest-quality red poinsettias, bred and selected for maximum performance.





NEW



NEW CHRISTMAS CANDLE

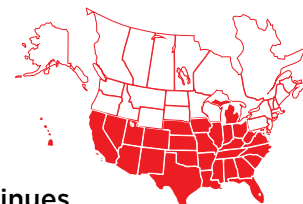
Ideal for Large Container Production

With robust, showy bracts, Christmas Candle grabs everyone's attention. Christmas Candle's upright habit on exceptionally strong stems makes this showy, red poinsettia ideal for large container production. Its mid-season timing is perfect for late November and early December sales.

8-8.5 WEEKS

VIGOR ●●●●●

NARROW ▼



GARY'S TIPS

"Christmas Candle's steady, vigorous growth continues throughout the crop until color begins to show. For best results, feed early and aggressively."

CULTURE THAT WORKS

Propagation

- Roots well; plant from a liner at 24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7.
- Feed aggressively; failure to feed early enough will result in yellowing and hardening.
- Grows rapidly after rooting; early PGR recommended.

Early Finished Growth

- Pinch early: at day 14-18 from a liner; at day 28 for direct-stick.
- Breaks begin to grow 5-7 days after pinch.
- In low-humidity climates, Florel applications before and/or after pinch may help hasten branching.
- Early PGR after pinch can keep plant even.

Growing On

- Grows steadily once the branches develop and exhibits consistent vigorous growth throughout the crop until color begins.
- Apply modest PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 750-1,000 ppm.
- Apply more aggressive PGR when branches are 2 in. (5 cm).
- Southern Climate: Use 1-2 applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Apply later Cycocel sprays at 500-750 ppm, with last applications by October 10.
- Micro Bonzi drenches can begin in early October.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- Avoid dry down to prevent root damage.



CHRISTMAS BELLS

Ships Beautifully for the Late Season

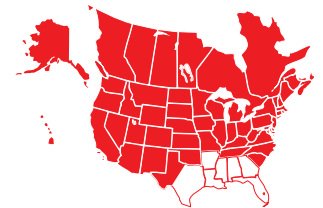
An exceptional mid-to-late poinsettia variety for almost all regions. Christmas Bells provides vibrantly rich, deep red-colored bracts. The very strong, upright, V-shaped habit works well with no rings in larger containers. This variety is the best late-season choice for Northern growers, with an **excellent post-harvest performance.**

8 WEEKS

VIGOR ●●●○○

NARROW 

MINI AVAILABLE 



GARY'S TIPS

“Christmas Bells is a great option for late-November to early-December sales.”

CULTURE THAT WORKS

Propagation

- Roots rapidly; plant from liner at 19-21 days; apply rooting hormone to base of cutting.
- Uses feed aggressively; start feed program around day 7; failure to feed early enough will result in yellowing.
- Medium vigor level; requires PGR application in propagation; 500-750 ppm Cycocel spray at day 15-20 and can be repeated if necessary.
- Plant from liners to finished container when well-rooted, prevents stretch.

Early Finished Growth

- Must be pinched early: at day 14-16 from a liner; at day 24-26 for direct-stick; failure to pinch early will result in uneven branching.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500-750 ppm; recommended to even out the branches.
- Branching occurs rapidly after pinch; PGR may be needed at 7 days.
- Very upright habit and can go to final spacing very early if needed; rings can be avoided, even in large pots.

Growing On

- Grows aggressively when branches develop; strong growth October into early November; slows as finish approaches in late November.
- Northern Climate: PGR limited to Cycocel spray at 500-1,000 ppm.
- Southern Climate: Use 1-2 spray applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Late PGR applications: Cycocel spray 500-750 ppm, end October 15.
- Micro Bonzi drenches can begin in early October; too aggressive PGR applications in October can result in smaller bracts.

Late Growing Stages

- Feed continuously until finish; watch media EC and reduce feed levels to avoid rapid increase; indicates plants' need for nutrition is waning.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- Finishes naturally in late November to early December; can be held cool to target week 50-51 sales; avoid dew point to prevent *Botrytis*.



CHRISTMAS CHEER

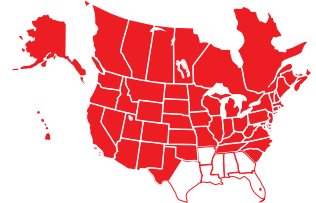
Always Uniform, Super Dark Red

Christmas Cheer is a very dark red-bracted poinsettia with medium vigor. This easy-to-grow variety is **extremely uniform in production**, and is an earlier version of Christmas Day Red.

8 WEEKS

VIGOR ●●●○○○

NORMAL



GARY'S TIPS

“Christmas Cheer grows steadily once the branches develop, exhibiting consistently slow growth throughout the crop until color begins.”

CULTURE THAT WORKS

Propagation

- Roots well; plant from a liner at 24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7.
- Feed aggressively; failure to feed early enough will result in yellowing and hardening.

Early Finished Growth

- Pinch early: at day 14-18 from a liner; at day 28 for direct-stick.
- Breaks begin to grow 5-7 days after pinch.
- In low-humidity climates, Florel applications before and/or after pinch may help hasten branching.

Growing On

- Grows steadily once the branches develop and exhibits consistent slow growth throughout the crop until color begins.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500-750 ppm.
- Apply more aggressive PGR when branches are 2 in. (5 cm).
- Southern Climate: Use 1-2 applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Apply later Cycocel sprays at 500-750 ppm, with last applications by October 10.
- Micro Bonzi drenches can begin in early October.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- Requires that the finished pH be maintained below 6.6 to prevent magnesium deficiency. This shows up in the form of interveinal chlorosis near the outer part of the leaves about 3/4 of the way up the plant, usually in late October. If this occurs, foliar applications of chelated magnesium can be applied.



Christmas Cheer



CHRISTMAS EVE RED

Early Season, Superior Color

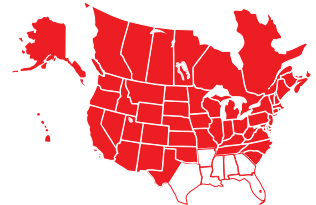
A strong, early-season, vivid red variety with **superior color retention and a long-lasting shelf life**. Its upright, narrow habit and medium bract size make it an ideal variety for higher density production and shipping. Eve works well in 6-in. (15-cm) pots and times perfectly for Thanksgiving.

7 WEEKS

VIGOR ●●●●○

NARROW 

MINI AVAILABLE 



GARY'S TIPS

“Christmas Eve Red is an early variety that will grow very little in late October and November.”

CULTURE THAT WORKS

Propagation

- Roots rapidly; plant from liner at 19-21 days; apply rooting hormone to base of cutting.
- Uses feed aggressively; start feed program around day 7; failure to feed early enough will result in yellowing.
- High vigor level; requires PGR application in propagation; 500-750 ppm Cycocel spray at day 15-20 and can be repeated if necessary.
- Plant from liners to finished container when well-rooted, prevents stretch.

Early Finished Growth

- Must be pinched early: at day 14-16 from a liner; at day 24-26 for direct-stick; failure to pinch early will result in uneven branching.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500-750 ppm; recommended to even out the branches.
- Branching occurs rapidly after pinch; PGR may be needed at 7 days.
- Very upright habit; can go to final spacing very early if needed; rings can be avoided, even in large pots.

Growing On

- Grows aggressively when branches develop; strong growth through mid-October, then slows as finish approaches.
- Northern Climate: PGR limited to Cycocel spray at 500-1,000 ppm.
- Southern Climate: Use 1-2 spray applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Late PGR applications: Cycocel spray 500-750 ppm, end October 10.
- Micro Bonzi drenches can begin in early October through October 15; Eve is an early variety that will grow very little in late October and November.

Late Growing Stages

- Feed continuously until finish; watch media EC and reduce feed levels to avoid rapid increase; indicates plants' need for nutrition is waning.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- Can be held cool to target week 50-51 sales; avoid dew point to prevent *Botrytis*.



CHRISTMAS MAGIC™ RED

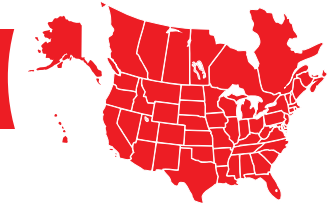
Programmable Powerhouse

The best option for early, compact, red poinsettias! This variety provides a more saturated, non-fading color and offers even branching with a better bract presentation on top of the plant for a higher-quality product. Plus, this variety is ideal for Southern growing and won't delay in the heat. Christmas Magic Red is **predictable, programmable and perfect for early Thanksgiving** — hitting the week 46 and 47 sales without ever missing a ship date.

7 WEEKS

VIGOR ●●○○○

NORMAL



GARY'S TIPS

“Christmas Magic Red is specifically targeted for early sales of small to mid-sized containers, and should be shipped when ready.”

CULTURE THAT WORKS

Propagation

- Roots rapidly; plant from a liner at 22-24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7.
- May not require PGR application in propagation.
- Plant into the finished container when well-rooted.
- Feed aggressively; failure to feed early enough will result in yellowing and hardening.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Low-vigor varieties require less PGR for growth control.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500 ppm.

Growing On

- Grows steadily once the branches develop and exhibits consistent slow growth throughout the crop until color begins.
- Northern Climate: Apply Cycocel spray at 500 ppm.
- Southern Climate: Can use Cycocel spray up to 750 ppm; use B-Nine/Cycocel tank mixes with caution in the South and not at all in the North.
- Use caution, as plants are low vigor and very responsive to PGR, especially Bonzi.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- A Bonzi application (1 ppm drench or 5 ppm spray) can be applied at the very end of the crop at first pollen shed to increase the shelf life and retain the cyathia.



CHRISTMAS AURORA

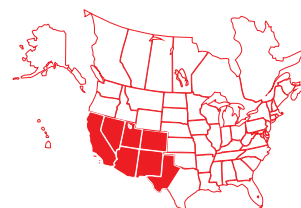
Brighten Up the Late Season

Christmas Aurora is a great choice for December poinsettia sales. Its upright, narrow habit and medium bract size are **ideal for higher density production and dependable shipping**. Aurora features intense red bracts. Its narrow shape makes it easy to sleeve. This reliable, predictable poinsettia works well in 6-in. (15-cm) pots. Plus, it is early to color but late to flower — providing an outstanding shelf life at retail and long-lasting enjoyment for the consumer.

8.5-9 WEEKS

VIGOR ●●●●○

NARROW 



GARY'S TIPS

“Christmas Aurora finishes naturally in late November to early December, and can be held cool to target week 50-51 sales.”

CULTURE THAT WORKS

Propagation

- Roots rapidly; plant from liner at 19-21 days; apply rooting hormone to base of cutting.
- Uses feed aggressively; start feed program around day 7; failure to feed early enough will result in yellowing.
- High vigor level; requires PGR application in propagation; 500-750 ppm Cycocel spray at day 15-20 and can be repeated if necessary.
- Plant from liners to finished container when well-rooted, prevents stretch.

Early Finished Growth

- Must be pinched early: at day 14-16 from a liner; at day 24-26 for direct-stick; failure to pinch early will result in uneven branching.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500-750 ppm; recommended to even out the branches.
- Branching occurs rapidly after pinch; PGR may be needed at 7 days.
- Very upright habit; can go to final spacing very early if needed; rings can be avoided, even in large pots.

Growing On

- Grows aggressively when branches develop; strong growth October into early November; slows as finish approaches in late November.
- Northern Climate: PGR limited to Cycocel spray at 500-1,000 ppm.
- Southern Climate: Use 1-2 spray applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Late PGR applications: Cycocel spray 500-750 ppm, end October 15.
- Micro Bonzi drenches can begin in early October; too aggressive PGR applications in October can result in smaller bracts.

Late Growing Stages

- Feed continuously until finish; watch media EC and reduce feed levels to avoid rapid increase; indicates plants' need for nutrition is waning.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- Finishes naturally in late November to early December; can be held cool to target week 50-51 sales; avoid dew point to prevent *Botrytis*.



CHRISTMAS SPIRIT

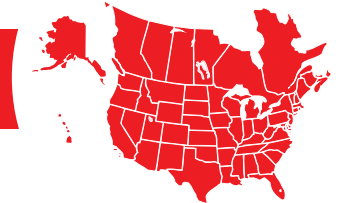
Vigorous & Versatile

Very large-bracted Christmas Spirit offers a rich red color for enormous retail appeal. This variety is best-suited for large pots, due to its **big vigor and early flowering**. Plus, this versatile poinsettia won't delay in the heat for Southern growers, yet is a superior choice for cold-finish production.

7.5 WEEKS

VIGOR ●●●●●

NARROW



GARY'S TIPS

“Christmas Spirit is an early variety that shows strong growth through mid-October and will grow very little in November.”

CULTURE THAT WORKS

Propagation

- Roots rapidly; plant from a liner at 19-21 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7 to prevent yellowing.
- Apply Cycocel spray at 500-750 ppm at day 15-20 and repeat if needed.
- Plant into the finished container when well-rooted.
- Feed aggressively; failure to feed early enough will result in yellowing and hardening.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Apply PGR when branches are 1-1.5 in. (2.5-4 cm), 7 days after pinch.
- Apply Cycocel spray at 500-750 ppm.

Growing On

- Grows steadily once the branches develop and exhibits strong growth through mid-October, then slows down as it approaches finish.
- Northern Climate: Apply Cycocel spray at 500-1,000 ppm.
- Southern Climate: Use 1-2 applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Apply later Cycocel sprays at 500-750 ppm, ending by October 10.
- Micro Bonzi applications can begin in early October, stopping by October 15.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- Can be held cool, but pay attention to humidity and avoid dew point to prevent *Botrytis*.



CHRISTMAS SEASON™

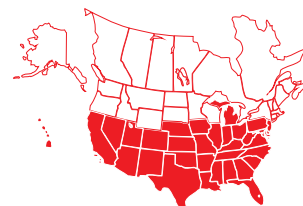
Big, Bold & Beautiful

Very early-season, energy-efficient variety for 6-in. (15-cm) pot programs and larger. Christmas Season has **big, showy bracts** and **dark green foliage** that will captivate customers. Recommended for the Deep South, as it thrives under warm conditions. An excellent choice for mixes.

7 WEEKS

VIGOR ●●●●●

WIDE



GARY'S TIPS

“Earlier, more aggressive applications of Cycocel after pinch, when lateral branches are 1-1.5 in. in length, promote stem strength.”

CULTURE THAT WORKS

Propagation

- Plant from liner at 22-24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7 to prevent yellowing.
- May not require PGR application in propagation.
- Plant into finished container when well-rooted.

Early Finished Growth

- Pinch early: at day 14-16 from a liner; at day 24-26 for direct-stick.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500 ppm.

Growing On

- Grows steadily once the branches develop and exhibits consistent slow growth throughout the crop until color begins.
- Northern Climate: Apply Cycocel spray at 500 ppm.
- Southern Climate: Can use Cycocel spray up to 750 ppm; B-Nine/Cycocel tank mixes should not be used.
- Use caution, as plants are very responsive to PGR, especially Bonzi.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- High EC at finish can result in root damage, reduced shelf life and possible *Pythium*.
- A Bonzi application (1 ppm drench or 5 ppm spray) can be applied at the very end of the crop at first pollen shed to increase the shelf life and retain the cyathia.



PINK



RED

CHRISTMAS WISH™ SERIES

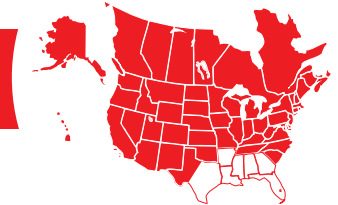
Brilliant, Mid-Season Color

Christmas Wish Red features a slightly brighter red color that won't fade in the heat of the South. The series features long-lasting cyathia for **extended life on the bench and on the shelf.** Its break-resistant, V-shaped habit means it ships and shows strong, and a high-quality root system offers higher yield and lower shrink.

8 WEEKS

VIGOR ●●●○○

NORMAL



GARY'S TIPS

"Christmas Wish is slower out of the pinch than many other Selecta One varieties."

CULTURE THAT WORKS

Propagation

- Roots well; plant from a liner at 24 days.
- Apply rooting hormone at the base of cutting.
- Start feed program at day 7.
- Feed aggressively; failure to feed early enough will result in yellowing and hardening.

Early Finished Growth

- Pinch early: at day 14-18 from a liner; at day 28 for direct-stick.
- Breaks begin to grow 5-7 days after pinch.
- In low-humidity climates, Florel applications before and/or after pinch may help hasten branching.

Growing On

- Grows steadily once the branches develop and exhibits consistent slow growth throughout the crop until color begins.
- Apply light PGR when branches are 1-1.5 in. (2.5-4 cm) using Cycocel spray at 500-750 ppm.
- Apply more aggressive PGR when branches are 2 in. (5 cm).
- Southern Climate: Use 1-2 applications of B-Nine (1,000 ppm)/Cycocel (500 ppm) before September 20.
- Apply later Cycocel sprays at 500-750 ppm, with last applications by October 10.
- Micro Bonzi drenches can begin in early October.

Late Growing Stages

- Requires continuous feed until finish.
- Reduce feed levels if media EC increases too rapidly.
- Requires that the finished pH be maintained below 6.6 to prevent magnesium deficiency. This shows up in the form of interveinal chlorosis near the outer part of the leaves about 3/4 of the way up the plant, usually in late October. If this occurs, foliar applications of chelated magnesium can be applied.

ON-TREND NOVELTIES

Selecta is known for offering only grower-friendly plants, and that includes our novelty poinsettias. Select from unique, eye-catching, on-trend colors, shades, textures and leaf designs that command attention at retail without compromising on quality or sacrificing your growing space.



Holly
Berry

Research and innovation create on-trend novelties for your customers. Whether you're looking for a red poinsettia with a uniquely shaped bract, vivid non-red solid colors or unique multicolored patterns, Selecta One provides colors and novelties that will grow and time to match perfectly with a red poinsettia.



NEW LEMON GLOW

Lemon Glow is a low vigor, bracted poinsettia. With timing of 7.5 weeks, this vivid yellow poinsettia is ideal for week 46-48 novelty and decorator programs. At retail, Lemon Glow's sunny yellow color brightens the shorter Fall days while transitioning from **Fall decorating in November to Christmas décor in December.**

7.5 WEEKS

VIGOR ●○○○○

NORMAL



BRILLIANT WHITE

This variety joins the new category of very white, white poinsettias. Brilliant White features attractive pointed white bracts on a medium-low vigor frame. Easy to produce with **strong shippability and post-harvest performance.**

8-8.5 WEEKS

VIGOR ●●○○○

NORMAL



CHRISTMAS MORNING

Ready for **Black Friday sales**, this early-season, medium-to-compact poinsettia will look fresh and festive in a variety of pot sizes. Christmas Morning features the same leaf shape, color and upright branching of Christmas Day Red, but with earlier flowering for quicker market delivery.

7.5 WEEKS

VIGOR ●●○○○

NARROW



CHRISTMAS TRADITION

Timed for late-season church and fundraiser use, this traditional, highly vigorous poinsettia features an elegant dark red color and **non-fading bracts** — even in high light. **Excellent indoor shelf life** keeps it beautiful for the entire Christmas season.



9.5 WEEKS

VIGOR ●●●●●

WIDE ▼

HOLLY BERRY

Holly Berry is a strong, holly-bracted, rounded, red novelty poinsettia. Its low vigor and superior branching make it ideal for small pots and dish gardens. Plus, Holly Berry is suitable for **high-density production** in smaller pots.



8-8.5 WEEKS

VIGOR ●○○○○

NORMAL ▼

NOEL RED

Noel Red is an **energy-saving variety** with an **early finish**, and it's perfect for high-quality, larger plant formats. It features florist-quality, upright branching and a beautiful, round habit.



7.5 WEEKS

VIGOR ●●●○○

NORMAL ▼

ORANGE GLOW

Orange Glow is a vibrant, large-bracted novelty poinsettia that stands out among the rest. This early-flowering, easy-to-grow variety is the perfect choice for mid-to-late November novelty programs, finishing just in time for Thanksgiving week. Plus, the **true-orange color makes it a natural Fall decorating item!**

7.5 WEEKS

VIGOR ●●●○○

NORMAL ▼



PINK CHAMPAGNE

Right in line with Christmas Cheer and Christmas Wish, Pink Champagne features a unique rose-on-pink bicolor bract. This variety has long-lasting cyathia for extended life on the bench and on the shelf. Its break-resistant, V-shaped habit means it **ships and shows strong**, and a high-quality root system offers **higher yield and lower shrink**.

8 WEEKS

VIGOR ●●●○○

NORMAL ▼



SNOWY WHITE

As one of our brightest white poinsettias, Snowy White is excellent for painting! Strong, easy-to-grow variety features large, showy bracts. Plus, the V-shaped, well-branched habit means less breakage — for **superior sleeveability and shippability.**

7.5 WEEKS

VIGOR ●●○○○

NORMAL



VALENTINE

Add captivating appeal to your program with romantic Valentine. Featuring long-lasting cyathia for **extended shelf life**, this variety is adaptable to pot and cut flower use.

8 WEEKS

VIGOR ●●●○○

NARROW



WINTERSUN WHITE

This poinsettia is a great option for painting. Wintersun White is well-branched and upright, with sturdy stems and holly-shaped foliage. Plus, it has **great post-harvest performance.**

7.5 WEEKS

VIGOR ●●●○○

NARROW



LAZZERI VARIETIES

Backed by the Number One Supply Chain

ALASKA

The **brightest, whitest poinsettia on the market!** This pure white variety with an ideal mid-season finish features attractive holly-shaped leaves and bracts. It has good post-harvest performance and works well in normal and cool-finish regimes.

8-8.5 WEEKS

VIGOR ●●●●○

NARROW ▼



ALPINA

As one of the whitest poinsettias on the market, Alpina provides **early-season color** ideal for week 47 sales. Plus, the medium vigor works well in many pot sizes.

7.5 WEEKS

VIGOR ●●●●○

NORMAL ▼



SUPERBA NEW GLITTER

The first choice for glitter novelties is here! A medium-vigor poinsettia with large, showy bracts. Mid-season timing makes Superba a **superior choice** among glitter varieties on the market.

8 WEEKS

VIGOR ●●●●○

NORMAL ▼



COUNT ON SELECTA ONE



Vivero Production Farm

BRINGING YOUR POINSETTIA ORDER CLOSER TO YOU

Selecta One North America continues to invest in the future of your poinsettia business by constructing an additional unrooted cutting farm in Yecapixtla, Mexico, that we're calling **YecaFlora**. The new location will allow us to **ship via truck to the U.S. border**, ensuring that you get your poinsettia order more quickly and reliably. During our multi-year construction project, we will continue to provide you with the same **exceptional supply chain** services and **consistent delivery** from Vivero International, Selecta One and Las Limas that you have come to expect from us.

As we embark on a new year, we remain committed to bringing you the **innovative genetics** from our unrooted cutting farms. We value your business and look forward to a successful season of growing together.

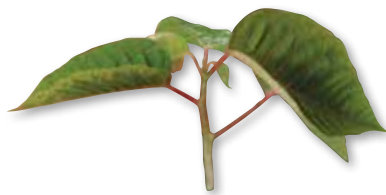


Working with you to ensure your poinsettia production runs smoothly, year after year.



UNROOTED
Cuttings (URC)

Variety minimum/multiples: 100
Order minimum: 2,000
Unrooted cuttings are shipped with 1.6-in. (4-cm) stem length, 4 to 5-mm stem diameter and 3 to 4 mature leaves.



ROOTED
Cuttings (RC)

Our Root & Sell Stations produce superb quality, ready-to-go rooted cuttings. Find the complete list on the back cover of this catalog. Contact your preferred distributor for more details.



CALLUSED
Cuttings (CC)

Variety minimum/multiples: 100
Order minimum: 2,000
Callused cuttings are harvested to the same specifications as our unrooted cuttings and shipped with a solid callus just prior to root formation.



MINI
Cuttings (URC)

Mini poinsettia unrooted cuttings (URC) are grown specifically for a smaller, toned cutting compared to our normal URC spec.



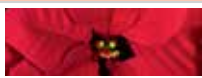
















SELECTA ONE CLEAN & FIELD TESTED VARIETIES

Every poinsettia variety is rigorously tested before entering our program and is subject to the same testing annually. Our Selecta Clean Stock program follows strict, internationally recognized protocols and is based on over 60 years of experience. Clean stock starts in the Selecta Clean Stock facility in Stuttgart, Germany. Our Field Tested varieties are trialed extensively for both grower and consumer performance.

For more information, visit SelectaNorthAmerica.com or call **800 879-2255**.



Selecta One 2023 Poinsettia Growing Recommendations

		Variety	Page	Natural Flower (first pollen)	Response Time in Weeks (first pollen)	Vigor	Habit ¹	
VERY EARLY SEASON								
		Christmas Eve Red 'NPCW08153'	20	Nov. 12-22	7	medium-high	narrow	
		Christmas Magic Red 'Realsplen'	21	Nov. 12-19	7	medium-low	normal	
		Christmas Season 'NPCW08135'	24	Nov. 10-17	7	high	wide	
Early Elegance Series		Early Elegance Marble 'NPCW22404'	4	Nov. 10	7	medium-low	normal	
		Early Elegance Pink 'NPCW22403'	4	Nov. 10	7	medium-low	normal	
		Early Elegance Red 'NPCW22279'	4	Nov. 10	7	medium-low	normal	
		Early Elegance White 'NPCW22405'	4	Nov. 10	7	medium-low	normal	
EARLY SEASON								
		Alpina 'LAZZPO1315'	31	Nov. 16-20	7.5	medium	normal	
Christmas Glory Series		Christmas Glory Pink 'NPCW15234'	14	Nov. 15-22	7.5	low	normal	
		Christmas Glory Red 'NPCW12200'	14	Nov. 15-22	7.5	low	normal	
		Christmas Glory White 'NPCW17267'	14	Nov. 15-22	7.5	low	normal	
Christmas Joy Series		Christmas Joy Marble 'NPCW17265'	10	Nov. 15-22	7.5	medium	normal	
		Christmas Joy Pink 'NPCW15244'	10	Nov. 15-22	7.5	medium	normal	
		Christmas Joy Red 'NPCW12197'	10	Nov. 15-22	7.5	medium	normal	
		Christmas Joy White 'NPCW15245'	10	Nov. 15-22	7.5	medium	normal	
		Christmas Morning 'NPCW15237'	27	Nov. 15-22	7.5	medium-low	narrow	
		Christmas Spirit 'NPCW18087'	23	Nov. 12-19	7.5	high	narrow	


















¹ Habit: Varieties are rated from narrow to normal to wide.

Average Bract Size	Cool Growing ²	Mini ³	4-5"	6"	8"	10"	Tree / Pyramid	Regional Recommendation Ratings of good or excellent indicate varieties that will be more successful when grown in specific regions.				
								CANADA/ NORTH	NORTHWEST	DEEP SOUTH	MIDWEST/ ATLANTIC	SOUTHWEST
medium, round	***	•	•	•	•	•		excellent	excellent		excellent	excellent
large, round	****		•	•	•			excellent	excellent	excellent	excellent	excellent
large, pointed	***			•	•	•	•			good		
large, pointed	***	•	•	•	•				excellent	excellent	excellent	excellent
large, pointed	***	•	•	•	•			excellent	excellent	excellent	excellent	excellent
large, pointed	***	•	•	•	•			excellent	excellent	excellent	excellent	excellent
large, pointed	***	•	•	•	•			excellent	excellent	excellent	excellent	excellent
large, pointed	***	•	•	•	•			excellent	excellent	excellent	excellent	excellent
large, pointed	***		•	•	•			good	good	good	good	good
medium, round	***	•	•	•				good	good	good	good	good
medium, round	***	•	•	•				good	good	good	good	good
medium, round	***	•	•	•				good	good	good	good	good
large, pointed	***	•	•	•	•	•	•	good	good	good	excellent	good
large, pointed	***	•	•	•	•	•	•	good	good	good	excellent	good
large, pointed	***	•	•	•	•	•	•	good	good	good	excellent	good
large, pointed	***	•	•	•	•	•	•	good	good		excellent	good
large, pointed	***		•	•				good	good		good	good
very large, pointed	****			•	•	•	•	excellent	excellent	excellent	excellent	excellent

² **Cool Growing:** Varieties are rated from most (****) to least (*) efficient. Contact us for guidelines.

³ Available as Mini Unrooted Cutting (URC).

Selecta One 2023 Poinsettia Growing Recommendations

		Variety	Page	Natural Flower (first pollen)	Response Time in Weeks (first pollen)	Vigor	Habit ¹	
EARLY SEASON								
		NEW Lemon Glow 'NPCW23396'	27	Nov. 16-20	7.5	low	normal	
		Noel Red 'NPCW10167'	28	Nov. 15-22	7.5	medium	normal	
		Orange Glow 'NPCW21350'	29	Nov. 16-20	7.5	medium	normal	
		Pink Champagne 'NPCW23402'	29	Nov. 16-20	8	medium	normal	
		Snowy White 'NPCW19278'	30	Nov. 15-22	7.5	medium-low	normal	
		Wintersun White 'NPCW09124'	30	Nov. 15-22	7.5	medium-high	narrow	
MID SEASON								
		Alaska 'LAZZPO1319'	31	Nov. 20-24	8-8.5	medium-high	narrow	
		Brilliant White 'NPCW22387'	27	Nov. 20-24	8-8.5	medium-low	normal	
		Christmas Aurora 'NPCW14221'	22	Nov. 23-27	8.5-9	medium-high	narrow	
Christmas Beauty Series		Christmas Beauty Cinnamon 'NPCW17243'	8	Nov. 23-27	8	medium	normal	
		Christmas Beauty Marble 'NPCW16260'	8	Nov. 23-27	8	medium	normal	
		Christmas Beauty North Pole 'NPCW14225'	8	Nov. 15-22	7.5	medium	normal	
		Christmas Beauty Pink 'NPCW11203'	8	Nov. 23-27	8	medium	normal	
		Christmas Beauty Princess 'NPCW18289'	8	Nov. 23-27	8	medium	normal	
		Christmas Beauty Queen 'NPCW19287'	8	Nov. 23-27	8	medium	normal	
		Christmas Beauty Red 'NPCW10158'	8	Nov. 23-27	8	medium	normal	
			NEW Christmas Candle 'NPCW20347'	16	Nov. 20-24	8-8.5	high	narrow















¹ **Habit:** Varieties are rated from narrow to normal to wide.

Average Bract Size	Cool Growing ²	Mini ³	4-5"	6"	8"	10"	Tree / Pyramid	Regional Recommendation Ratings of good or excellent indicate varieties that will be more successful when grown in specific regions.				
								CANADA/ NORTH	NORTHWEST	DEEP SOUTH	MIDWEST/ ATLANTIC	SOUTHWEST
large, pointed	***		•	•				good	good	good	good	good
large, pointed	***		•	•	•	•	•	good			good	
large, pointed	***		•	•	•			good	good	good	good	good
large, pointed			•	•	•	•		good	good		good	good
large, round	***		•	•	•		•	good	good	good	good	good
medium, holly-shaped	***		•	•	•	•		good	good		good	
large, holly-shaped	***		•	•	•	•	•	good	good		good	good
large, pointed			•	•	•			good	good	good	good	good
medium, round	***		•	•	•	•						good
medium, round	***	•	•	•				good	good	excellent	excellent	good
medium, round	***	•	•	•				excellent	excellent	excellent	excellent	excellent
medium, round	***	•	•	•	•			good	good	excellent	excellent	good
medium, round	***	•	•	•				good	good	excellent	excellent	good
medium, round	***	•	•	•				good	good	excellent	excellent	good
medium, round	***	•	•	•				good	good	excellent	excellent	good
medium, round	****	•	•	•				good	good	excellent	excellent	good
large, pointed	***			•	•	•	•	good	good	excellent	good	excellent

² **Cool Growing:** Varieties are rated from most (***) to least (*) efficient. Contact us for guidelines.

³ Available as Mini Unrooted Cutting (URC).

Selecta One 2023 Poinsettia Growing Recommendations

		Variety	Page	Natural Flower (first pollen)	Response Time in Weeks (first pollen)	Vigor	Habit ¹	
MID SEASON								
		Christmas Bells 'NPCW19282'	17	Nov. 23-27	8	medium	narrow	
		Christmas Cheer 'NPCW17257'	18	Nov. 15-22	8	medium	normal	
Christmas Feelings Series		Christmas Feelings Merlot 'NPCW09170'	12	Nov. 20-27	8	medium-low	normal	
		Christmas Feelings Pink 'NPCW07120'	12	Nov. 20-27	8	medium-low	normal	
		Christmas Feelings Red 'NPCW02044'	12	Nov. 20-27	8	medium-low	normal	
		Christmas Feelings White 'NPCW13211'	12	Nov. 20-27	8	medium-low	normal	
Christmas Mouse Series		Christmas Mouse Pink 'NPCW21367'	6	Nov. 20-24	8-8.5	medium	normal	
		Christmas Mouse Red 'NPCW19280'	6	Nov. 20-24	8-8.5	medium	normal	
Christmas Wish Series		Christmas Wish Pink 'NPCW18281'	25	Nov. 20-27	8	medium	normal	
		Christmas Wish Red 'NPCW13218'	25	Nov. 20-27	8	medium	normal	
		Holly Berry 'NPCW20049'	28	Nov. 23-27	8-8.5	low	normal	
		Superba New Glitter 'LAZZPOSUGI'	31	Nov. 20-24	8	medium	normal	
		Valentine 'NPCW11201'	30	Nov. 20-27	8	medium-high	narrow	
LATE SEASON								
		Christmas Tradition 'NPCW14205'	28	Dec. 7-14	9.5	high	wide	

¹ **Habit:** Varieties are rated from narrow to normal to wide.

Average Bract Size	Cool Growing ²	Mini ³	4-5"	6"	8"	10"	Tree / Pyramid	Regional Recommendation Ratings of good or excellent indicate varieties that will be more successful when grown in specific regions.				
								CANADA/NORTH	NORTHWEST	DEEP SOUTH	MIDWEST/ATLANTIC	SOUTHWEST
large, pointed	***	•	•	•	•	•		good	good		good	good
large, pointed	***		•	•	•	•		excellent	excellent		excellent	good
large, pointed	***		•	•	•			good	good	good	good	excellent
large, pointed	***		•	•	•			good	good	good	good	good
large, pointed	***	•	•	•	•			good	good	good	good	excellent
large, pointed	***		•	•	•			good	good	good	good	good
large, oval (unique) mouse ear		•	•	•				good	good	good	good	good
large, oval (unique) mouse ear		•	•	•				good	good	good	good	good
large, pointed	***		•	•	•	•	•	excellent	excellent		excellent	excellent
large, pointed	***		•	•	•	•	•	excellent	good		good	excellent
medium, very holly-shaped	***		•	•	•			good	good		good	good
large, pointed	***		•	•	•			good	good	good	good	good
rose-shaped	***		•	•	•	•	•	good	good	good	good	good
								CANADA/NORTH	NORTHWEST	DEEP SOUTH	MIDWEST/ATLANTIC	SOUTHWEST
large, pointed	***			•	•	•		good	good		good	good

² **Cool Growing:** Varieties are rated from most (***) to least (*) efficient. Contact us for guidelines.

³ Available as Mini Unrooted Cutting (URC).

TIPS FOR PRODUCING PICTURE-PERFECT POINSETTIAS



Early Elegance White

Propagation Guide

Unrooted Cuttings

1. Open boxes upon arrival and check the temperature inside the box.
2. Unpack cuttings in a cooler at 50°F (10°C) and monitor temperatures throughout the unpacking, storing and sticking process. If temperature is greater than 70°F (21°C), allow cuttings to cool before sticking. Keep cuttings moist and turgid while handling.
3. Stick cuttings in media-filled liner trays, preferably using a stabilized media such as Ellepot or Oasis.

Note: It's preferable to stick unrooted cuttings right away. But if you must store cuttings, keep them cool at 50°F (10°C) for no more than 24 hours. After sticking, keep propagation environment shaded and cool for the first 2 days to limit stress.



(Left) cool unrooted cuttings; (Right) allowed to warm



Infrared thermometers help you keep a close eye on temperatures

PRO TIP

A single application of a low-dose CapSil within 24 hours can maximize efficiency of misting and reduce stress on cuttings. High doses or repeated applications will cause distortion of new growth. Use Capsil at a rate of 1 to 2 oz./100 gal. to break the surface tension of water on the leaf.

Note: Growers should use the information presented in this guide as a starting point. Crop times will vary depending on the climate, location, time of year and greenhouse environmental conditions. Chemical and PGR recommendations are only guidelines. It is the responsibility of the applicator to read and follow all the current label directions for the specific chemical being used in accordance with all regulations.

CULTURE – PROPAGATION GUIDE

Stage 1: Callus (First 7 Days)

- Apply rooting hormone to base of cuttings. Low rates of hormone can be applied otop after sticking the cuttings. Rates must be very low for this strategy to avoid phytotoxicity.
- Stick and mist cuttings ASAP to avoid wilt. Keep humidity and mist levels high, including some at night, from Day 1 through Day 4.
- Use lower light with shading and keep air temperature below 90°F (32°C). Callus will form 5 to 7 days after sticking.
- Broad spectrum fungicide can be applied a few days after sticking to reduce disease pressure.
- Soil temperatures of 72 to 75°F (22 to 24°C) are best for callus formation.



A nice white callus 8 days after sticking

Stage 2: Root Out (Days 8 to 14)

- Reduce mist to force root growth.
- Spray with a broad-spectrum fungicide or bactericide in evenings, allowing chemical to adhere to plant.
- Avoid saturated media to speed root initiation. Reduce soil moisture to build root system.
- Fertilize with 150 ppm N of balanced fertilizer that contains Calcium (Ca) and Magnesium (Mg).
- Visible roots will appear by Day 10. Eliminate mist by Day 14.

Stage 3: Finished Propagation (Days 15 to 28)

- Continue feeding every other irrigation with 150 ppm N in a balanced soluble fertilizer.
- Continue to spray with a broad-spectrum fungicide every 7 to 10 days.
- If plants are growing too quickly, apply PGRs around Day 16 and again at Day 22. We recommend Cycocel 750 ppm spray. For more control on fast-growing varieties, increase the Cycocel rate to 1,000 ppm and/or decrease the time between applications to 4 days. If you don't get enough control with Cycocel alone, try a tank mix of B-Nine 1,000 ppm/Cycocel 500 ppm.
- In the last week of propagation, raise light levels and reduce temperatures to harden the liners for planting.
- Cuttings are ready to plant by Days 23 to 28.



Days 23 to 28:
All grown out and ready to plant

PRO TIP

Watch for fungus gnats and treat preventatively.

PRO TIP

Avoid foliar fertilizers with phosphorus.

POINSETTIA ROOTING HORMONE RECOMMENDATIONS

PRODUCT	RECOMMENDED RATE	APPLICATION METHOD	NOTES
Hortus IBA Water Soluble Salts	500-1,000 ppm IBA	Basal stem dip or spray just prior to sticking cuttings	Mix solution to desired ppm and dip only bottom 1 in. (2.5 cm) of the stem. Be careful not to let solution touch leaves, upper stem or growing point.
Hortus IBA Water Soluble Salts	75-150 ppm IBA	Course spray applied after sticking cuttings	Spray to runoff so that solution drips down stem toward the base of the cutting. Will likely cause some leaf distortion or curling, but plants normally grow out of it. Higher rates = more leaf curl. Trial first.
Rhizopon AA #1	1,000 ppm IBA	Basal stem dip or spray just prior to sticking cuttings	Mix solution to desired ppm and dip only bottom 1 in. (2.5 cm) of the stem. Be careful not to let solution touch leaves, upper stem or growing point.
Dip 'N Grow	1,000 ppm IBA + 500 ppm NAA	Basal stem dip or spray just prior to sticking cuttings	Mix solution to desired ppm and dip only bottom 1 in. (2.5 cm) of the stem. Be careful not to let solution touch leaves, upper stem or growing point.

Note: These are only recommendations; please read and follow labels carefully. Test plants for sensitivity before wholesale use. Environmental factors may affect efficacy and potential phytotoxicity.

CULTURE – FINISHING GUIDE

Finishing Environment

Day temperatures: 68 to 78°F (20 to 26°C)

Night temperatures: 65 to 70°F (18 to 21°C)

- Keep humidity high by wetting floors and minimizing air movement. Use drip irrigation and high-porous potting plant media with pH adjusted with limestone.
- Be sure media is well-drained, with a maintained pH of 5.7-6.2. Avoid pH of 6.6 and higher at finish, as high pH and reduced fertility levels can contribute to bract edge burn and Mg deficiencies.
- Negative DIP works well for height control one hour before sunrise until three hours after.

PRO TIP

Reduce feed as the crop finishes in November.

Deficiencies

The most common deficiencies are Calcium and Magnesium.

- Lack of Ca causes bract edge burn on poinsettias. Ca moves in water, so high transpiration rates are important.
- Supply Ca in fertilizer; not all “balanced” feeds have Ca. Many growers utilize Calcium Chloride or Calcium Chelate sprays starting in mid-to-late October to help with bract edge burn.
- Elevated pH is associated with higher Calcium feeds and/or water alkalinity. This can result in Mg deficiencies. If pH is above 6.3 in mid-October, supplemental Mg is needed.



Calcium deficiency



Calcium deficiency



Magnesium deficiency

Water and Fertilizer

- Maintain even moisture. Dramatic swings from wet to dry can damage roots and contribute to *Pythium* root rot.
- Maintain a media pH of 5.7-6.3. Poinsettia should be grown with a constant liquid feed program of 200-250 ppm N. Cal-Mag feed is recommended, as they need a good source of Ca. Know your water quality to choose correct fertilizer and better manage media pH, as pH above 6.5 can trigger Mg deficiency.
- Maintain a media EC of 1.2-2.0 from a pour-through or 0.8-1.3 for a 1:2. A healthy and active growing poinsettia will consume a lot of fertilizer. If, while consistently fertilizing, you find that media EC is still low – that is okay because modern poinsettias will aggressively uptake nutrition.
- Utilize tissue and analysis to ensure nutrition is adequate. Plus, don't forget the Moly!

Other Deficiencies



Potassium deficiency



Phosphorus deficiency



Nitrogen deficiency



Iron deficiency



Boron deficiency



Molybdenum deficiency

Where nutrition deficiency symptoms occur on the poinsettia plant



Moisture Management Do's and Don'ts

- Part of a good moisture management program is focusing on building your foundation by creating a consistent language of moisture levels within your growing team. Staying in the middle of the road and quantifying your moisture levels, including knowing when and how much to water, will help keep your crop healthy.
- Avoid growing “dry” in an effort to prevent root diseases, but also be careful of big swings in moisture management or overhead watering late in the day. Providing your team with a planned watering procedure will keep them from having to guess when and how much to water.

Pinching

- Pinching plants before breaks significantly form is critical to support even branching. On very early branching varieties, like Christmas Feelings, the pinch should be done on Day 12 to 14 after planting. On other varieties, the pinch should be done when the roots reach the edge of the pot. Late pinching will result in uneven branching.
- Pinch according to leaf count, based on finished specs. (For example, leaving 6 to 7 leaves below the pinch will produce a plant with 6 primary bracts.)
- Removing 1 to 2 leaves just below the pinch will increase light penetration, promoting stronger and more uniform branching.



Before pinching



After pinching



Branch development after 7 days



Proper water management leads to perfect roots

CULTURE – FINISHING GUIDE

Florel Application Prior and Post-Pinch (Florel Sandwich)

- Applications of Florel at rates from 200 to 400 ppm 5 days prior and 5 days after pinch help ensure good branching in varieties and conditions where branching can be inhibited.
- This can cause a “PGR effect” that will continue through the crop cycle. It is not necessary on many new, very free-branching varieties.

Early PGR Application

- To reduce internode length, encourage even branching and produce a plant better suited for pinching, apply Cycocel 750 to 1,200 ppm spray or B-Nine 1,000 ppm/Cycocel 750 ppm tank mix spray prior to pinch.
- Start applications in propagation and continue after transplant, as needed.
- Apply after pinching, when new shoots measure at least 0.75 in. (2 cm), and repeat. This will even out the branches and reduce apical dominance.



Improved habit with proper PGR use

Flower Induction

- Most varieties will begin to induce flowers between September 10 and 25.
- Light pollution can delay flowering. Blackout and long-day lighting can be used to manipulate maturity dates.
- Excessive heat also can delay flowering. Avoid warm nights above 72°F (22°C) from 1 week prior to initiation through October 10.

Temperatures

- Ideally, keep day temperatures between 75 and 86°F (24 and 30°C) and night temperatures between 61 and 72°F (16 and 22°C) for optimal plant development.
- Leaves will unfold at the highest rate around 75°F (24°C) average daily temperature (ADT).
- At around 80°F (27°C) ADT, development will slow.

- Keeping the ADT at 68 to 73°F (20 to 23°C) is a good target.
- Providing the correct temperature is especially important after initiation, and high temperatures remain a challenge for poinsettia growth.



Keep ADT at 68 to 73°F (20 to 23°C)

Growing On PGRs

- Use only PGR sprays, no drenches, until shoots are 2 in. (5 cm) in length.
- Use Cycocel 750 to 1,200 ppm spray or B-Nine 1,000 ppm/Cycocel 750 ppm tank mix spray early in the crop cycle to reduce stress and even out the branching.
- Avoid PGR applications within 1 week of initiation.
- Stop PGR applications by October 10 (natural season crop), except for micro-drenches of Bonzi.
- Use only very low rates (1/10 to 1/20 ppm) during the bract expansion period in October and early November (natural season crop).
- Use late applications of Bonzi drench at 0.5 ppm to improve shelf life. This is best done at full bract coloration, just before pollen shed.
- Do not apply prior to full color.

PRO TIP

Stop B-Nine applications by September 14.

Spacing and Target Height Control

- Crop specifications usually include height, width and bract count. A 6-in. (15-cm) poinsettia is typically spaced 13 to 14 in. (33 to 36 cm) on center, with a finished height of 14 to 16 in. (36 to 41 cm) and a primary bract count of 5 to 6.
- Establish final spacing before leaf canopy closes.
- Apply shade right after spacing for a few days to avoid stress.
- Track height progress through crop cycle to ensure you're meeting your specifications and apply PGRs as needed.

PRO TIP

For larger finished plant height, transplant earlier, providing a longer crop time from pinch to initiation.



Time for late applications of Bonzi drench

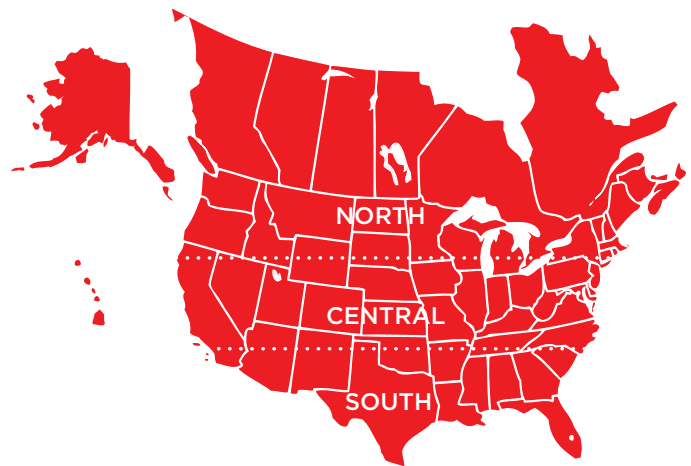


A 6-in. (15-cm) poinsettia is typically spaced 13 to 14 in. (33 to 36 cm) on center

Scheduling Your Poinsettia Crop

Steps to determine when to order your cuttings.

- **Phase 1:** Allow 2 weeks from transplant to pinch.
- **Phase 2:** See the chart below to determine your weeks from pinch to flower initiation. (We've based our timelines on a medium-vigor variety. Varieties with higher or lower vigor may move the pinch dates ahead or behind by 1 week.)
- **Phase 3:** Refer to the charts on pages 34 to 39 to find your weeks from flower initiation to retail-ready crop.
- Then, based on your retail-ready date, count backward to determine the week to order your cuttings.



AVERAGE WEEKS FROM PINCH TO FLOWER INITIATION

WEEKS	NORTH	CENTRAL	SOUTH
0 WEEKS	2" or Mini (1 plant/pot)	2" or Mini (1 plant/pot)	2" or Mini (1 plant/pot)
1 WEEK			4" pot (1 plant/pot)
2 WEEKS		4" pot (1 plant/pot)	6" pot (1 plant/pot)
3 WEEKS	4" pot (1 plant/pot)	6" pot (1 plant/pot)	6.5-7" pot (1-2 plants/pot)
4 WEEKS	6" pot (1 plant/pot)	6.5-7" pot (1-2 plants/pot)	8-8.5" pot (3 plants/pot)
5 WEEKS	6.5-7" pot (1-2 plants/pot)	8-8.5" pot (3 plants/pot)	10" pot (3-5 plants/pot)
6 WEEKS	8-8.5" pot (3 plants/pot)	10" pot (3-5 plants/pot)	12"+ pot (4+ plants/pot)
7 WEEKS	10" pot (3-5 plants/pot)	12"+ pot (4+ plants/pot)	
8 WEEKS	12"+ pot (4+ plants/pot)		

CULTURE – FINISHING GUIDE

Insects

Common insects: Whitefly (several species and bio-types), Fungus Gnats and Thrips.

CHEMICAL GUIDE FOR INSECTS						
PRODUCT	ACTIVE INGREDIENT	RATE RANGE/100 GAL.	PESTS CONTROLLED	CHEMICAL CLASS	SAFE ON BRACTS	NOTES
Rycar	Pyriproxyfen	1.6-3.2 oz.	Whitefly	Unknown	Trial first	
Mainspring	Cyantraniliprole	1-8 oz. (foliar); 12 oz. (drench)	Whitefly	28	Trial first	Drench rate is 12 oz./gallon stock solution at 1:100 ratio
Judo	Spiromesifen	2-4 oz.	Whitefly	23	Trial first	
Safari	Dinotefuran	4-8 oz. (spray); 12-24 oz. (drench)	Whitefly	4A	Yes	1-3 weeks after pinch for best control. Drench rate is 12-24 oz./gallon stock solution at 1:100 ratio (Neonicotinoid).
Kontos	Spirotetramat	1.7-3.4 oz.	Whitefly	23	Trial first	
Flagship	Thiamethoxam	2-4 oz.	Whitefly	4A	Trial first	Neonicotinoid
Endeavor	Pymetrozine	2.5-5 oz.	Whitefly	9B	Trial first	
Sanmite	Pyridaben	4-6 oz.	Whitefly	21A	Trial first	
Xxpire	Isoclast Active + Spinetoram	2.75 oz.	Whitefly	4C+5	Trial first	
Avid	Abamectin	8 oz.	Whitefly	6	Trial first	
Avid	Abamectin	4 oz.	Mites	6	Trial first	
Kontos	Spirotetramat	1.7-3.4 oz.	Mites	23	Trial first	
Judo	Spiromesifen	1-4 oz.	Mites	23	Trial first	
Sanmite	Pyridaben	4 oz.	Mites	21A	Trial first	
Overture	Pyridalyl	8 oz.	Thrips	Unknown	Trial first	
Pylon	Chlorfenapyr	5.2-10 oz.	Thrips	13	No	Label states that can cause phyto on poinsettias
Avid	Abamectin	8 oz.	Thrips	6	Trial first	
Conserve	Spinosad	11-22 oz.	Thrips	18	Trial first	
Azatin	Azadirachtin	8 oz./gallon at 1:100 ratio	Fungus Gnats	Unknown	Trial first	IGR. Target larvae in top third to half of soil profile
Citation	Cyromazine	2.66 oz./gallon at 1:100 ratio	Fungus Gnats	17	Trial first	IGR. Target larvae in top third to half of soil profile
Safari	Dinotefuran	12-24 oz./gallon at 1:100 ratio	Fungus Gnats	4A	Trial first	Neonicotinoid. Use as curative when larvae causes damage
Parasitic Nematodes			Fungus Gnats			Steinernema feltiae

Note: These are only recommendations; please read and follow labels carefully. Test plants for sensitivity before wholesale use. Environmental factors may affect efficacy and potential phytotoxicity.



Whitefly



Thrip damage

BIOLOGICAL GUIDE FOR INSECTS

CONTROL AGENT	ACTIVE INGREDIENT	RATE RANGE/100 GAL.	PESTS CONTROLLED	SAFE ON BRACTS	NOTES
BotaniGard ES	Beauveria bassiana	16-32 oz.	Whitefly	No	Label states: Do not apply after poinsettia bract formation
NoFly WP	Paecilomyces fumosoroseus	28 oz.	Whitefly	Unknown	
Met52 EC	Metarhizium anisopliae	8-32 oz.	Whitefly	Unknown	Do not apply at pressures above 200 psi
Amblyseius swirskii	Predator		Whitefly		
Delphastus pusillus	Predator		Whitefly		
Encarsia formosa	Parasitoid		Whitefly		
Eretmocerus eremicus	Parasitoid		Whitefly		
Eretmocerus mundus	Parasitoid		Whitefly		
Amblyseius andersoni	Predator		Spider Mites		
Amblyseius californicus	Predator		Spider Mites		
Feltiella acarisuga	Predator		Spider Mites		
Phytoseiulus persimilis	Predator		Spider Mites		
BotaniGard ES	Beauveria bassiana	32-64 oz.	Thrips	No	Label states: Do not apply after poinsettia bract formation
NoFly WP	Paecilomyces fumosoroseus	28 oz.	Thrips	Unknown	
Met52 EC	Metarhizium anisopliae	8-32 oz.	Thrips	Unknown	Do not apply at pressures above 200 psi
Amblyseius andersoni	Predator		Thrips		
Amblyseius swirskii	Predator		Thrips		
Hypoaspis miles	Predator		Thrips		
Steinernema feltiae	Parasitic Nematode		Thrips		
Orius insidiosus	Predator		Thrips		
Hypoaspis miles	Predator		Fungus Gnats		
Steinernema feltiae	Parasitic Nematode		Fungus Gnats		
Atheta coriaria	Predator		Fungus Gnats		
Gnatrol	Bacillus thuringiensis		Fungus Gnats		

Note: These are only recommendations; please read and follow labels carefully. Test plants for sensitivity before wholesale use. Environmental factors may affect efficacy and potential phytotoxicity.

CULTURE – FINISHING GUIDE

Poinsettia Diseases and Control

Common diseases: *Pythium* Root Rot, *Rhizoctonia* Stem Rot, *Botrytis* (leaves, bracts, stems), Powdery Mildew (leaves) and Bacterial Leaf Spot.

CHEMICAL GUIDE FOR DISEASE CONTROL						
PRODUCT	ACTIVE INGREDIENT	RATE RANGE/100 GAL.	PESTS CONTROLLED	CHEMICAL CLASS	SAFE ON BRACTS	NOTES
Daconil	Chlorothalonil	16-22 oz.	Botrytis	5	No	
Chipco 26019	Iprodione	16-32 oz.	Botrytis	2	No	Foliar spray rate listed; drench rate is different, read label.
26GT	Iprodione	32-80 oz.	Botrytis	2	No	
Pageant Intrinsic	Pyraclostrobin + Boscalid	12-18 oz.	Botrytis	7 + 11	Yes	Do not combine with organosilicone-based adjuvants (CapSil)
Medallion	Fludioxonil	2-4 oz.	Botrytis	12	Yes	
MilStop	Potassium Bicarbonate	20-80 oz.	Botrytis	NC	Yes	Use lower rates on bracts
Decree	Fenhexamid	12-24 oz.	Botrytis	17	Yes	Will leave some residue on bracts; some sensitivity possible
Veranda O	Polyoxin D	4-8 oz.	Botrytis	19	Unknown	
Pageant Intrinsic	Pyraclostrobin + Boscalid	12-18 oz.	Rhizoctonia	7 + 11	Yes	Do not combine with organosilicone-based adjuvants (CapSil)
Medallion	Fludioxonil	1 oz.	Rhizoctonia	12	Yes	Spreng/drench rate is 1 oz./100 gallons water
Clearys 3336/OHP 6672	Thiophanate-Methyl	16-20 oz.	Rhizoctonia	1	No	
Daconil	Chlorothalonil	16-22 oz.	Rhizoctonia	5	No	
Pageant Intrinsic	Pyraclostrobin + Boscalid	6-12 oz.	Powdery Mildew	7 + 11	Yes	Do not combine with organosilicone-based adjuvants (CapSil)
MilStop	Potassium Bicarbonate	20-80 oz.	Powdery Mildew	NC	Yes	Use lower rates on bracts
Phyton 35	Copper Sulfate Pentahydrate	15-35 oz.	Powdery Mildew	M1	Yes	Adjust pH to 5.5-6.5
Daconil	Chlorothalonil	16-22 oz.	Powdery Mildew	5	No	
Zyban	Thiophanate-Methyl, dithiocarbamate, zinc, manganese	24 oz.	Scab	1 + M3	No	
Spectro 90 WDG	Chlorothalonil/ Thiophanate-Methyl	16-32 oz.	Scab	1 + M5	No	
Heritage	Azoxystrobin	1-4 oz.	Scab	11	Yes	
Terrazole L	Etridiazole	2.5-7 oz.	Pythium	14	No	Remember to apply appropriate amount of solution based on soil volume of container. The rates listed are oz./gallon of stock solution at a 1:100 ratio.
Fenstop	Fenamidone	7-14 oz.	Pythium	11	No	
Subdue	Mefenoxam	0.5-1 oz.	Pythium	4	No	
Segway	Cyazofamid	1.5-3 oz.	Pythium	21	No	
Phyton 35	Copper Sulfate Pentahydrate	15-35 oz.	Erwinia/ Bacteria	M1	Yes	Adjust pH to 5.5-6.5
Junction	Mancozeb + Copper Hydroxide	28 oz.	Erwinia/ Bacteria	M1 + M2	No	Be sure spray solution is above pH 6.5 or phytotoxicity is likely
ZeroTol	Hydrogen Dioxide + Peroxyacetic Acid	42-128 oz. (1:100-1:300)	Erwinia/ Bacteria	NC	Yes	Don't apply in combination with metal-based chemicals

Note: These are only recommendations; please read and follow labels carefully. Test plants for sensitivity before wholesale use. Environmental factors may affect efficacy and potential phytotoxicity.

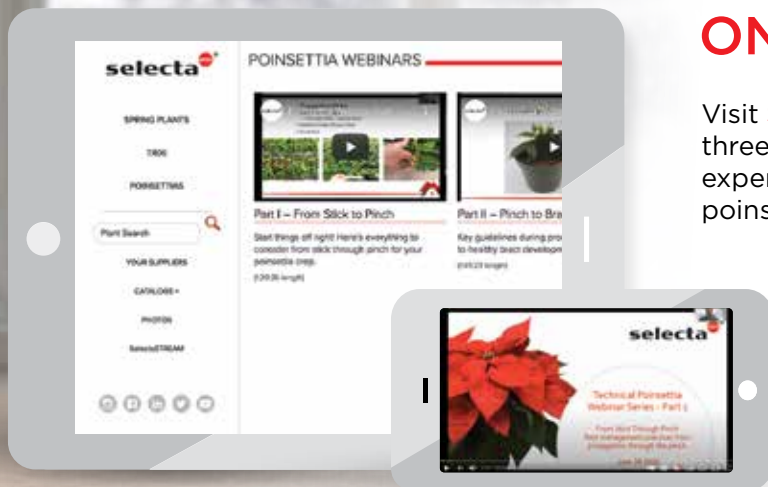
BIOLOGICAL GUIDE FOR DISEASE CONTROL

CONTROL AGENT	ACTIVE INGREDIENT	RATE RANGE/100 GAL.	PESTS CONTROLLED	SAFE ON BRACTS	NOTES
Actinovate SP	Streptomyces lydicus	6-12 oz.	Botrytis	Trial first	Used as a foliar spray
Cease	Bacillus subtilis	64-256 oz. (2-8 qt.)	Botrytis	Trial first	
MilStop	Potassium bicarbonate	20-80 oz.	Botrytis	Yes	Use lower rates on bracts; trial first
Actinovate SP	Streptomyces lydicus	4-6 oz./100 gal. of finished solution	Rhizoctonia	Trial first	This would be a 4-6 oz. per gallon of stock solution using a 1:100 injector
RootShield Plus WP	Trichoderma	3-8 oz.	Rhizoctonia	Trial first	Can use granular in place of WP (see label for rates)
Actinovate SP	Streptomyces lydicus	6-12 oz.	Powdery Mildew	Trial first	Used as a foliar spray
Cease	Bacillus subtilis	64-256 oz. (2-8 qt.)	Powdery Mildew	Trial first	
MilStop	Potassium bicarbonate	20-80 oz.	Powdery Mildew	Yes	Use lower rates on bracts; trial first
Actinovate SP	Streptomyces lydicus	4-6 oz./100 gal. of finished solution	Pythium	Trial first	This would be a 4-6 oz. per gallon of stock solution using a 1:100 injector
RootShield Plus WP	Trichoderma	3-8 oz.	Pythium	Trial first	Can use granular in place of WP (see label for rates)
Cease	Bacillus subtilis	64-256 oz. (2-8 qt.)	Erwinia/Bacteria	Trial first	
ZeroTol	Hydrogen Dioxide + Peroxyacetic Acid	42-128 oz. (1:100-1:300)	Erwinia/Bacteria	Trial first	No residue; many peroxide products to choose from

Note: These are only recommendations; please read and follow labels carefully. Test plants for sensitivity before wholesale use. Environmental factors may affect efficacy and potential phytotoxicity.

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